

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application: In the listing of claims, claims 1, 12, 21, 22 and 26 are amended, claim 8 is cancelled without prejudice and claim 30 is added.

Claim 1. (Currently Amended) A transparency having a heatable wiper rest area comprising:

a rigid transparent sheet having a major surface and an area adjacent to a selected edge of the sheet designated as the heatable wiper rest area;

an opaque band positioned on selected marginal edge portions of the major surface of the sheet along at least a portion of the selected edge of the sheet in a fixed relationship to the wiper rest area; and

a heating arrangement for heating the wiper rest area, the arrangement comprising:

an electrically conductive member positioned on the sheet in facing relationship to ~~on~~ the opaque band, the conductive member having a first side and a ~~an~~ opposite-second side with the first and second sides of the conductive member spaced from one another with the second side of the conductive member spaced a greater distance from the edge of the sheet than the first side of the conductive member, ~~adjacent the selected edge of the sheet and~~ the conductive member extending along at least a portion of the selected edge of the sheet in a fixed relationship to the wiper rest area;

a plurality of ~~spaced-bus bars~~ positioned in electrical contact along the conductive member, wherein the plurality of bus bars comprises at least three bus bars defined as a first bus bar, a second bus bar and a third bus bar, with the second bus bar positioned between, and spaced from, the first and third bus bars so as to define a

~~first divides the electrically conductive member into a plurality of adjacent discrete heatable areas~~ area ~~between and electrically connecting the first and second bus bars, and a second discrete heatable area between and electrically connecting the second and third bus bars;~~

a first lead ~~to electrically interconnecting~~ interconnect the first and third ~~selected ones of the plurality of bus bars~~ at a position adjacent one of the sides designated as the connected side, and spaced from the other side, of the conductive member, the first lead extending ~~on over~~ the opaque band along the connected side of the conductive member;

a second lead ~~to electrically connected to the second bus bar interconnect other selected ones of the plurality of bus bars~~ at a position adjacent the connected side, and spaced from the other side, of the conductive member, the second lead extending ~~on over~~ the opaque band along the connected side of the conductive member, such that moving current through the first and second leads and the bus bars provides a moves ~~current across selected ones of the first discrete area and across the second discrete area~~ areas to heat the wiper rest area, wherein a portion of the first lead and a portion of the second lead overlay each other; and

an insulating member positioned between the portion of the first lead and the portion of the second lead that overlay each other to electrically insulate the portion of the first lead and the portion of the second lead that overlay each other.

Claim 2. (Previously Presented) The transparency according to claim 1, wherein the connected side of the conductive member is the first side of the conductive member and the first and second leads extend between the first side of the conductive member and the selected edge of the sheet.

Claim 3. (Previously Presented) The transparency according to claim 2, wherein the transparency is an automotive transparency and the selected edge of the sheet as mounted in a vehicle is a lower edge of the sheet.

Claim 4. (Original) The transparency according to claim 1, wherein the conductive member is an electrically conductive coating.

Claim 5. (Original) The transparency according to claim 4, wherein the coating is a multilayered, silver containing coating.

Claim 6. (Original) The transparency of claim 4, wherein the coating is a first electrically conductive coating and further comprising a second electrically conductive coating positioned along at least a central portion of the major surface of sheet and electrically isolated from the first coating.

Claim 7. (Original) The transparency according to claim 1, further comprising first and second connectors electrically connected to the first and second leads, respectively, to provide external electrical access to the leads, bus bars and conductive member.

Claim 8 Cancelled

Claim 9. (Original) The transparency according to claim 1, wherein the sheet is a glass sheet.

Claim 10. (Original) The transparency of claim 9, wherein the transparency is a automotive backlight.

Claim 11. (Previously Presented) The transparency according to claim 1, wherein the sheet is a first glass sheet, and further including a plastic interlayer and a second glass sheet wherein the interlayer secures the first and second glass sheets together with the conductive member between one of the sheets and the interlayer.

Claim 12. (Currently Amended) A transparency having a heatable wiper rest area comprising:

a first glass sheet having an outer major surface and an inner major surface and an area of the outer surface of the first sheet adjacent to a selected edge of the first glass sheet designated as the heatable wiper rest area;

a second glass sheet having an outer major surface, an inner major surface and a selected edge;

an interlayer material securing the inner major surface of the first glass sheet to the inner major surface of the second glass sheet with the selected edge of the first sheet adjacent to the selected edge of the second glass sheet;

an opaque band positioned on one of the inner-major surfaces ~~surface~~ of the first glass sheet along at least a portion of the selected edge of the first glass sheet at the wiper rest area; and

a heating arrangement for heating the wiper rest area, the arrangement comprising:

an electrically conductive member positioned on either the inner major surface or the outer major surface of the second glass sheet, the conductive member having a first side and an opposite second side with the first side of the conductive member adjacent the selected edge of the second sheet and extending along at least a portion of the selected edge of the second glass sheet in a fixed relationship to the wiper rest area;

a plurality of ~~spaced~~-bus bars positioned in spaced relationship to one another along, and in electrical contact with, along the conductive member, wherein the plurality of bus bars divides the conductive member into a plurality of adjacent discrete heatable areas;

a first lead ~~to electrically~~ interconnecting ~~interconnect~~ selected ones of the plurality of bus bars having two adjacent discrete heatable areas and one of

the plurality of bus bars therebetween at a position adjacent the first side, ~~and spaced from the second side,~~ of the conductive member, the first lead extending along ~~and spaced from~~ the first side of the conductive member; a second lead ~~to electrically~~ interconnecting ~~interconnect other selected ones of the plurality of bus bars~~ having two adjacent discrete heatable areas and one of the plurality of bus bars connected to the first lead therebetween, or to electrically connect one of the plurality of bus bars between a pair of adjacent ones of the plurality of bus bars connected to the first lead at a position adjacent the first side, ~~and spaced from the second side,~~ of the conductive member, the second lead extending along the first side of the conductive member, wherein a portion of the first lead and a portion of the second lead overlay each other; and an insulating member positioned between the portion of the first lead and the portion of the second lead that overlay each other to electrically insulate the portion of the first lead from the portion of the second lead that overlay each other.

Claim 13. (Previously Presented) The transparency according to claim 12, wherein the conductive member is on the inner surface of the second glass sheet and the first and second leads extend between the first side of the conductive member and the selected edge of the second glass sheet.

Claim 14. (Previously Presented) The transparency according to claim 13, wherein the first and second sheets secured together by the interlayer material is a laminate and the selected edge of the second glass sheet is a lower edge of the second glass sheet as the laminate is mounted.

Claim 15. (Original) The transparency according to claim 12, wherein the conductive member is an electrically conductive coating.

Claim 16. (Original) The transparency according to claim 15, wherein the coating is a multilayered, silver containing coating.

Claim 17. (Original) The transparency according to claim 15, wherein the coating is a first electrically conductive coating on the inner major surface of the second glass sheet and further comprising a second electrically conductive coating positioned along at least a central portion of the inner major surface of the second glass sheet and electrically isolated from the first coating.

Claim 18. (Original) The transparency according to claim 12, further comprising first and second connectors electrically connected to the first and second leads, respectively, to provide external electrical access to the leads, bus bars and coating.

Claim 19. (Previously Presented) The transparency according to claim 12, wherein the heating arrangement extends along the inner major surface of the second glass sheet.

Claim 20. (Original) The transparency according to claim 12, wherein the transparency is a windshield.

Claim 21. (Currently Amended) The transparency according to claim 12, wherein the plurality of bus bars include at least three spaced bus bars defined as a first bus bar, a second bus bar and a third bus bar, with the second bus bar positioned between the first and third bus bars so as to define a first discrete heatable area between and electrically connecting the first and second bus bars and a second discrete heatable area between and electrically connecting the second and third bus bars, and further wherein the first lead electrically interconnects ~~connects~~ the first and third bus bars, and the second lead is electrically connected to the second bus bar such that moving current through the first and second leads and the bus bars moves current across the first and second discrete areas to heat the discrete areas

and the portion of the first lead overlaps the portion of the second lead adjacent the connected side of the conductive member.

Claim 22. (Currently Amended) A method of making a transparency having a heatable wiper rest area comprising:

providing a rigid transparent sheet having major surface;
applying an opaque band on marginal edge portions of the major surface of the sheet along at least a portion of a selected edge of the sheet at an expected wiper rest area;

applying an electrically conductive member having a first side and an opposite second side on the opaque band along at least a portion of the selected edge of the sheet with the first side of the conductive member adjacent to, and spaced from, the selected edge of the sheet and in a fixed relationship to the expected wiper rest area;

positioning a plurality of ~~spaced~~-bus bars in spaced relationship to one another along, and in electrical contact with ~~along~~ the conductive member, wherein the plurality of bus bars divides the electrically conductive member into a plurality of adjacent discrete heatable areas;

positioning a first lead on the opaque band and along the first side of the coating to electrically interconnect ~~selected ones of the plurality of bus bars~~ having two adjacent discrete heatable areas separated by one of the plurality of bus bars not connected to the first lead;

positioning a second lead along the opaque band and along the first side of the coating to electrically interconnect ones of the plurality of bus bars having two adjacent discrete heatable areas and one of the plurality of bus bars connected to the first lead, or to electrically connect one of the plurality of bus bars between a pair of adjacent ones of the plurality of bus bars connected to the first lead, such that moving current through the first and second leads, and the bus bars moves current across the discrete areas to heat the discrete areas, wherein a portion

of the first lead and a portion of the second lead overlay each other; and

electrically insulating the portion of the first lead from the portion of the second lead that overlay each other.

Claim 23. (Previously Presented) The method according to claim 22, wherein the sheet is a first glass sheet, and further including securing a second glass sheet to the first glass sheet with a plastic interlayer positioned between the first glass sheet and the second glass sheet with the opaque band and the conductive member between the sheets.

Claim 24. (Previously Presented) The method according to claim 23 wherein the transparency is a laminated transparency for a vehicle, the conductive member is a first conductive member, and the major surface of the first sheet faces a major surface of the second sheet, and further including the step of applying a second conductive member to a center portion of the inner surface of at least one of the first and second sheets with the first and second conductive members electrically isolated from one another.

Claim 25. (Previously Presented) The transparency according to claim 1 wherein the sheet is a glass sheet, and the major surface of the sheet is a first major surface and further including an opposite second major surface with the heatable wiper rest area on the second major surface of the sheet, the opaque band is on the first major surface of the sheet in facing relationship to the heatable wiper rest area and the heating arrangement is in facing relationship to the opaque band with the opaque band between the heatable wiper rest area and the heating arrangement.

Claim 26. (Currently Amended) The transparency according to claim 1 wherein the conductive member has a four sides parallelepiped shape and the ends of the bus bar extend beyond adjacent side of the conductive member.

Claim 27. (Previously Presented) The transparency according to claim 2 wherein the portion of the first lead overlays the portion of the second lead at a position between the selected edge and the first side of the conductive member.

Claim 28. (Previously Presented) The transparency according to claim 15, wherein the coating is a first electrically conductive coating and further comprising a second electrically conductive coating, the first and second coatings are between the first and second sheets and electrically isolated from one another.

Claim 29. (Previously Presented) The transparency according to claim 12 wherein the conductive member is on the inner surface of the first sheet and the portion of the first lead overlays the portion of the second lead at a position between the selected edge of the first glass sheet and the first side of the conductive member.

Claim 30. (New) The transparency according to claim 1 wherein the plurality of bus bars further comprises a fourth bus bar and a fifth bus bar each positioned on, and in electrical contact, with the conductive member with the fourth bus bar adjacent to and spaced from the third bus bar and the fifth bus bar adjacent to and spaced from the fourth bus bar; the portions of the conductive member between the third and fourth bus bar provide a third discrete heatable area and the portion of the conductive member between the fourth and fifth bus bars provide a fourth discrete heatable area; the first lead interconnects the first, third and fifth bus bars, and the second lead interconnects the second and fourth bus bars, and moving current through the first and second leads moves current across the first, second, third and fourth discrete areas, and further wherein the overlay is a first overlay and further comprising a second overlay spaced from the first overlay wherein the first lead and second lead are electrically isolated from one another at the second overlay.